QC ABSTRACT

Nameof Work: Maintenance of Footpath in Dasarahalli W.No.15

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	1:4:8	7.02 Cum	1	1	Pass
2	Steel	1.12 Tonne	1	1	Pass
3	M20	56.70 Cum	5	5	Pass
4	Slab - 100mm	39.00 Sqm	1	1	Pass
5	Slab - 250mm	161.70 Sqm	1	1	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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ಇ ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ ಜಿ ಎಂ ಪಿ
ಬೆಂಗಳೂರು 560073

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(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date: 06.07.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. B K Nagendra ,** Contractor, Bangalore.
NAME OF THE WORK	:	Maintenance of Footpath in Dasarahalli W.No.15
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		June - 2022
DATE OF TESTING		04.07.2022 to 06.07.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	325 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date : 06.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra , Contractor, Bangalore.

Name of Work : Maintenance of Footpath in Dasarahalli W.No.15

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	135	13.50	21.60	78.4	75-100
1.18	187	18.70	40.30	59.7	55-90
600 Micron	155	15.50	55.80	44.2	35-59
300 Micron	232	23.20	79.00	21.0	8-30
150 Micron	133	13.30	92.30	7.7	0-10

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date : 06.07.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of Work : Maintenance of Footpath in Dasarahalli W.No.15

Date of Testing : 06.07.2022

Material : Sand - Masonry

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	17	1.70	1.70	98.3	90-100
1.18	39	3.90	5.60	94.4	70-100
600 Micron	92	9.20	14.80	85.2	40-100
300 Micron	247	24.70	39.50	60.5	5-70
150 Micron	495	49.50	89.00	11.0	0-15

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TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra , Contractor, Bangalore.

Name of Work : Maintenance of Footpath in Dasarahalli W.No.15

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	187	3.7	3.7	96.3	95-100
10	2497	49.9	53.7	46.3	25-55
4.75	1977	39.5	93.2	6.8	0-10

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date : 06.07.2022

TEST REPORT ON COARSE AGGREGATES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra , Contractor, Bangalore.

Name of Work : Maintenance of Footpath in Dasarahalli W.No.15

Date of Testing : 06.07.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	191	1.27	1.27	98.73	95-100
20	8278	55.19	56.46	43.54	30-70
10	3341	22.27	78.73	21.27	10-35
4.75	2841	18.94	97.67	2.33	0-5

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date : 07.07.2022

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra , Contractor, Bangalore.

Name of Work : Maintenance of Footpath in Dasarahalli W.No.15

Steel Dia/Length : 8mm,10mm,12mm " Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 07.07.2022

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.399	545	625	1.15	13.5
2	TMT	10	0.621	552	645	1.17	14
3	TMT	12	0.891	561	662	1.18	15

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date: 07.07.2022

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	: Sri. B K Nagendra , Contractor, Bangalore.
Name of Work	:	: Maintenance of Footpath in Dasarahalli W.No.15
No.of Sample Tested	:	03
Date of Testing	:	07.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.379	2412.79	1.60	0.957	33.10	16.86	18.21	17.42	21.77
2	50.00	82.00	0.392	2434.68	1.64	0.961	33.80	17.21	18.59	17.87	22.34
3	50.00	84.00	0.395	2394.90	1.68	0.965	34.50	17.57	18.98	18.32	22.90

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 07.07.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Contractor	:	: Sri. B K Nagendra , Contractor, Bangalore.
Name of Work	:	: Maintenance of Footpath in Dasarahalli W.No.15
No.of Sample Tested	:	03
Date of Testing	:	07.07.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	113.00	1.725	2399.58	1.26	0.920	112.10	17.62	19.03	17.50	21.88
2	90.00	115.00	1.749	2390.66	1.28	0.922	112.80	17.73	19.15	17.66	22.07
3	90.00	117.00	1.774	2383.38	1.30	0.924	113.50	17.84	19.27	17.81	22.26

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Date: 15.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.135	341.2	15.16
2	08.07.2022	15.07.2022	8.146	345.9	15.37
3	08.07.2022	15.07.2022	8.154	351.5	15.62

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 15.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	: **Sri. B K Nagendra , Contractor, Bangalore.**
Name of the work	: Maintenance of Footpath in Dasarahalli W.No.15
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.138	345.1	15.34
2	08.07.2022	15.07.2022	8.144	349.8	15.55
3	08.07.2022	15.07.2022	8.151	355.7	15.81

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 15.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	15.07.2022	8.143	346.2	15.39
2	08.07.2022	15.07.2022	8.151	348.9	15.51
3	08.07.2022	15.07.2022	8.159	354.5	15.76

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ಬಾಗಲಗುಂಟೆ. ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 16.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.07.2022	16.07.2022	8.178	345.2	15.34
2	09.07.2022	16.07.2022	8.165	339.3	15.08
3	09.07.2022	16.07.2022	8.146	356.1	15.83

Note:

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date: 16.07.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. B K Nagendra , Contractor, Bangalore.**
Name of the work	: Maintenance of Footpath in Dasarahalli W.No.15
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.07.2022	16.07.2022	8.151	346.2	15.39
2	09.07.2022	16.07.2022	8.159	347.8	15.46
3	09.07.2022	16.07.2022	8.163	353.7	15.72

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23

Date: 05.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	05.08.2022	8.169	500.2	22.23
2	08.07.2022	05.08.2022	8.184	516.2	22.94
3	08.07.2022	05.08.2022	8.154	484.9	21.55

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 05.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. B K Nagendra , Contractor, Bangalore.**
Name of the work	: Maintenance of Footpath in Dasarahalli W.No.15
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	05.08.2022	8.162	504.2	22.41
2	08.07.2022	05.08.2022	8.169	509.7	22.65
3	08.07.2022	05.08.2022	8.175	499.5	22.20

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Date: 05.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : Sri. B K Nagendra , Contractor, Bangalore.

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.07.2022	05.08.2022	8.169	504.2	22.41
2	08.07.2022	05.08.2022	8.174	495.9	22.04
3	08.07.2022	05.08.2022	8.181	499.1	22.18

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Job No.: CACE/BBMP/BKN/W.No.15/2022-23 Date: 06.08.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **Sri. B K Nagendra , Contractor, Bangalore.**

Name of the work : Maintenance of Footpath in Dasarahalli W.No.15

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.07.2022	06.08.2022	8.168	504.1	22.40
2	09.07.2022	06.08.2022	8.174	508.7	22.61
3	09.07.2022	06.08.2022	8.186	515.2	22.90

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**
Agency	**: Sri. B K Nagendra , Contractor, Bangalore.**
Name of the work	: Maintenance of Footpath in Dasarahalli W.No.15
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.07.2022	06.08.2022	8.163	501.9	22.31
2	09.07.2022	06.08.2022	8.169	504.7	22.43
3	09.07.2022	06.08.2022	8.177	508.2	22.59

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